

Name _____

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FINDING THE EQUATION OF A QUADRATIC FUNCTION

Find the equation of a parabola that opens up, and has the following x intercepts.

1) $(-3,0)$ and $(4,0)$

2) $(-12,0)$ and $(-3,0)$

3) $(2,0)$ and $(5,0)$

Find the equation of a parabola that opens down, and has the following x intercepts.

4) $(-2,0)$ and $(6,0)$

5) $(1,0)$ and $(7,0)$

6) $(5,0)$

7) Find the equation of a parabola that has a vertex of $(-3,2)$ and contains the point $(4,7)$.

8) Find the equation of a parabola that has a vertex of $(4,5)$ and contains the point $(-2,-2)$.

9) Find the equation of a parabola that has a vertex of $(-2,-3)$ and contains the point $(4,1)$.

10) Find the equation of a parabola that has a vertex of $(0,3)$ and passes the x axis at $(7,0)$.

11) Find the equation of a parabola that has a vertex of $(3,-1)$ and has a y intercept of $(0,-8)$.

12) Find the equation of a parabola that has a vertex of $(5,0)$ and has a y intercept of $(0,-12)$.

13) Find the equation of a parabola that passes through $(1,6)$, $(2,5)$ and $(0,5)$.